

# HP StorageWorks

## Sun Solaris connectivity 3.0G for the EVA3000/EVA5000 Enterprise Virtual Array release notes

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# About this document

This document includes the following topics:

- [Release notes information](#)
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## Release notes information

These release notes include the following topics:

- [New features](#)
- [EVA storage system](#)
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- [constraints](#)
- [Storage System Scripting Utility for EVA](#)
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## Intended audience

This document is intended to assist customers who purchased the HP StorageWorks Enterprise Virtual Array (EVA) and the Sun Solaris™ operating system.

This document is also intended for use by HP customer service personnel responsible for installing and maintaining devices connected to the EVA storage system.

## New features

The following are major enhancements included in this release:

- Support is provided for Virtual Controller Software (VCS) 3.025.
- The HP StorageWorks Sun Solaris 3.0G for EVA contains only the Storage System Scripting Utility (SSSU). The HBA drivers have been removed.

## EVA storage system

This document contains the most recent product information about the operating the EVA on a Sun Solaris system.

## EVA documentation

A complete library of EVA and related documentation is available at the following web sites.

<http://www.hp.com/go/eva5000>

<http://www.hp.com/go/eva3000>

## Supported configurations

Supported configurations are described in the *Enterprise Virtual Array QuickSpecs*, available at the following web sites:

<http://h18006.www1.hp.com/products/storageworks/eva3000/specifications.html>

<http://h18006.www1.hp.com/products/storageworks/eva5000/specifications.html>

The extended interoperability of the heterogeneous SAN allows you to mix several types of HP StorageWorks storage systems. The *HP StorageWorks SAN design reference guide* is a detailed guide for SAN configurations and is available at the following web site.

<http://h18004.www1.hp.com/products/storageworks/san/documentation.html>.

## EVA compatibility

Table 1 lists the operating system's specifications.



### NOTE:

Table 1 contains current minimum level operating system specifications at the time of the EVA 3.025 release. Some component versions may change due to revision. For the latest information, go to <http://h18006.www1.hp.com/storage/index.html>.

**Table 1 Operating system specifications**

OS version	Clustering	FCA (HBA)	Adapter firmware version (minimum)	Adapter driver version (minimum)
6, 7	SunCluster 2.2, Veritas Cluster Server 2.0	SWSA4-PC SWSA4-SC FCA2257P FCA2257S	3.0.3 13.3.7 3.2.15 2.2.6	2.6.13 2.6.13 4.13.01 4.13.01
8	SunCluster 2.2, Veritas Cluster Server 2.0 Veritas Cluster Server 3.5	SWSA4-PC SWSA4-SC FCA2257P FCA2257S FCA2257C	3.0.3 13.3.7 3.2.15 2.2.6 2.2.6	2.6.13 2.6.13 4.13.01 4.13.01 4.13.01
	Sun Cluster 3.1	FCA2257P FCA2257S	3.2.15 2.2.6	4.13.01 4.13.01
9	SunCluster 3.1 Veritas Cluster Server 4.0	FCA2257P FCA2257S	3.2.15 2.2.6	4.13.01 4.13.01
	Veritas Cluster Server 3.5	SWSA4-PC SWSA4-SC FCA2257P FCA2257S FCA2257C	3.0.3 13.3.7 3.2.15 2.2.6 2.2.6	2.6.13 2.6.13 4.13.01 4.13.01 4.13.01

Table 2 lists the supported Sun Solaris platforms.

**Table 2 Supported platforms**

Platform	Model number	PCI or cPCI
Sun Fire	V120 V240 V250 V440 280R V480 V880 V1280	PCI only
	3800	cPCI only
	4800 4810 6800	PCI and/Or cPCI with cPCI module
	12K 15K	PCI only (FCA2257P)
Sun Enterprise	3000 3500 4000 4500 5000 5500 6000 6500 10000	PCI and/or sBus Check customer configuration
	220R 250 420R 450	PCI only

## Required patches

This release of this Solution Software Kit has been qualified with Sun Solaris patches installed. Refer to the Secure Path for Sun Solaris specifications for the latest patch information at: <http://h18066.www1.hp.com/products/storageworks/enterprise/specification.html>.



### **WARNING!**

Do not neglect the required patches. Your system will not function properly without them.

## Switch support

This release supports the Fibre Channel switches and firmware versions listed in the *HP StorageWorks SAN design reference guide* which can be downloaded from the following web site:

<http://h18000.www1.hp.com/products/storageworks/san/documentation.html>.



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**NOTE:**

HP recommends that you do not mix switch firmware versions in your SAN. It is considered a best practice to uniformly upgrade all switches in the SAN.

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## Multiple-path support

Sun Solaris with EVA storage requires the installation of StorageWorks Secure Path on each host to achieve high-availability multiple-path capability.

## Single-path support

A Sun Solaris server requires a single FCA to support single-path mode.



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**NOTE:**

Single-path mode should not be used in mission critical environments. To configure Sun Solaris in single path mode, you must use the HSG80 Solution Software 8.7A for Sun Solaris connectivity.

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## Operating constraints

You can find operating constraints specific to the EVA and Command View EVA in their respective release notes.

## Failover/failback

Failback preference settings for the HSV controllers are specific to the operating system. Refer to the HP StorageWorks Enterprise Virtual Array release notes for details.

## Storage System Scripting Utility for EVA

The Storage System Scripting Utility (SSSU) communicates directly with the Command View EVA. Refer to the *Command View EVA release notes* prior to using the SSSU.

## Avoiding problem situations

The following sections describe problems that may arise and their solutions.

## Known problems

You can find problems specific to the EVA and Command View EVA in their respective release notes.

## Using config.sh to install an HSV110

When you use `config.sh` from the Fcraid manager to install an HSV110 on a system with an HSG80, some paths to the storage may be undetected. Before installing Secure Path, run `devfsadm` to detect all configured paths. Afterwards, run `spconfig` to correctly configure your system.

## Secure Path version

The EVA with VCS 3.025 requires the latest version of Secure Path for your operating system. The current version of Secure Path for your operating system can be found at the following web page.

<http://h18006.www1.hp.com/products/storageworks/enterprise/specifications.html>

## Codeload usage

When a maximally configured system is running at maximum load, Secure Path timing constraints make codeload functionality ineffective. The system may time-out before codeload is complete. Therefore, you should perform VCS upgrades at an off-peak time.

## SSSU

### Changing comments on a disk enclosure

Use Command View EVA to change comments on a disk enclosure. If you try to change a disk enclosure comment using the SSSU, the following error message appears:

```
Error: Invalid Operation
```

### Changing the name of a disk enclosure

Changing the name of a disk enclosure is not supported with the SSSU or with Command View EVA. If you try to change a disk enclosure name using the SSSU, the following error message appears:

```
Error: Invalid Operation
```